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中国蔷薇科植物分类之研究(四)(续)

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TAXA NOVA ROSACEARUM SINICARUM (IV) (Cont.)

YÜ TE-TSUN LU LING-TI
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101. **狭苞悬钩子** 新种

Rubus angustibracteatus Yü et Lu, sp. nov.

Species *R. ichangensi* Hemsl. et Ktze. affinis, qui petiolis 2—4 cm longis, glabris, foliis utrinque glabris, margine sinuosis praesertim basin versus lobulatis, calycibus *pubescentibus stipitato-glandulosisque differt.*

Frutex scandens; rami juveniles et petioli pubescentes glandulis stipitatis aculeisque paucis et falcatis obtecti. Folia ovato-lanceolata vel oblongo-lanceolata, 7—12 cm longa, 2—4 cm lata, acuminata, basi profunde cordata, subtus flavo-tomentosa, margine argute serrulata; stipulae et bracteae lineares vel lanceolatae, deciduae. Inflorescentiae anguste paniculatae vel breviter racemosae cum calycibus villosae, stipitato-glandulosae; sepala ovata vel ovato-lanceolata, acuminata; petala minora, subrotundata, puberula; ovaria pubescentia. Fructus e drupeolis paucis compositi.

Sichuan (四川): Baoxing (宝兴), T. P. Soong (宋滋圃)39295 (Typus, PE); Maowen (茂汶), S. Chiang et al. (姜恕等) 635。

本种和宜昌悬钩子 *R. ichangensis* Hemsl. et Ktze. 区别在于后者叶柄长 2—4 厘米，无毛;叶片两面无毛,边缘浅波状或近基部有小裂片;花萼具稀疏柔毛和腺毛。

102. **短柄悬钩子** 新种

Rubus brevipetiolatus Yü et Lu, sp. nov.

Habitu *R. latoauriculato* Metc. proxima, qui foliis ad basim cordato-auriculatis, petiolis 1—2 cm longis, stipulis bracteisque in lacinulas paucas lineares fissis, rhachidibus pedicellisque cum calycibus glabris distinguitur.

Fruticosus, rami juveniles pubescentes aculeolis paucis et falcatis muniti. Folia oblongo-lanceolata, 7—13 cm longa, 2—3 cm lata, acuminata, basi rotundata, utrinque praeter nervos pilosos glabra, margine grosse et argute dentata; petioli 7—9 mm longi, pubescentes et falcato-aculeolati; stipulae oblongo-lanceolatae vel elliptico-lanceolatae, brunneae, integrae vel paullo dentatae. Flores pauci in paniculam angustatam terminalem dispositi vel in axillis foliorum fasciculati; pedunculi pedicellique cum calycibus

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pubescentes; sepala ovato-lanceolata, caudata, externa apice incisa; petala elliptica vel spathulata; ovaria ca. 10—15, glabra.

Guangxi (广西): sine loc., S. S. Sin (辛树帜) 23309 (Typus, PE).

此种和耳叶悬钩子 *R. latoauriculatus* Metc. 相近,但后者叶基心形,具明显两耳;叶柄长 1—2 厘米;托叶和苞片分裂几达中部,裂片线形;总花梗、花梗和花萼均无毛。

亚组 18 **长序亚组** Subsect. **Elongati** (Focke), Yu et Lu, stat. nov. —— Sect. *Elongati* Focke, Bibl. Bot. **72**(1): 49. 1910. p.p.—— Sect. *Moluccani* Focke, l. c. **72**(1): 71. 1910. p. p.

Folia simplicia, ovata, ovato-lanceolata ad oblonga, raro late ovata vel subrotundata, apice acuminata, rarius acuta vel obtusa, subtus densissime cinereo- vel helvolo-tomentosa; Inflorescential amplae pyramidales ad 27 cm longae, rarius paniculae angustae; carpella ca. 10—50.

108. **截叶悬钩子** 新种

Rubus tinifolius Wu ex Yü et Lu, sp. nov.

Species *R. ochraceo* Card. similis, qui stipulis bracteisque lanceolatis, 1.2 cm longis, integris vel lobatis, inflorescentiis ad 10 cm longis, tomentosis differt.

Frutex ad 2 m altus; ramuli petiolique tomentoso-villosi, aculeolis paucis recurvisque muniti. Folia triangulariter et late ovata, 7—14 cm longa, 4.5—11 cm lata, acuminata, basi truncata, subtus dense cano- vel flavo-tomentosa, margine inaequaliter grosse serrulata; stipulae bracteaeque late obovatae, pubescentes, palmatilobae. Flores in paniculas et racemos terminales vel corymbos axillares dispositi; rhachides et pedicelli calycesque flavo tomentoso-villosi; sepala ovata, acuta, externa spice in lacinulas fissa; petala subrotundata, alba; ovaria glabra. Fructus minores.

Yunnan (云南): Pingbian (屏边), alt. 1400 m. 29. VI. 1934. H. T. Tsai (蔡希陶) 60509 (Typus, PE), 60143, 60600; ibidem, P. I. Mao (毛品一) 2082, 4214; ibidem, K. M. Feng (冯国楣) 4921; ibidem, Yunnan Complex Exped. (云南综考队) 2087, 3924; Jingdong (景东), P. Y. Chiu (邱炳云) 52870; Menglian (孟连), Menglian Exped. (孟连队) 9757。

此种和越南产的 *R. ochraceus* Card. 区别在于后者托叶和苞片披针形,长 1.2 厘米,全缘或分裂;花序长达 10 厘米,被绒毛。

110. **楸叶悬钩子** 新种 图版 3:1

Rubus mallotifolius Wu ex Yü et Lu, sp. nov.

Species a *R. chroosepalo* Focke foliis coriaceis, basi truncatis ad subcordatis, inflorescentiis paniculatis angustis et laxis, petalis subrotundatis diversa.

Frutex scandens; rami et petioli juventute villosi aculeolis sparsis recurvisque armati. Folia coriacea, triangulari ter late ovata ad subrotundata, 9—12 cm longa, acuta, basi truncata ad subcordata, supra glabra, subtus tomento cano-fulvo obtecta, margine irregulariter grosse dentata; stipulae deciduae. Paniculae angustatae et laxae, cum calycibus flavo-sericeo-villosae; bracteae subrotundatae vel late oblongae, 6—7 mm longae, apice lobatae; sepala late ovata vel subrotundata; petala subrotundata, glabra, albida; ovaria glabra.

Yunnan (云南): Pingbian (屏边), alt. 1560 m, 16. VII. 1957, P. I. Mao (毛品一) 2546 (Typus, PE); ibidem, K. M. Feng (冯国楣) 4921; ibidem, H. T. Tsai (蔡希陶) 61115, 62695。

此种和毛萼莓 *R. chroosepalus* Focke 近缘，但叶片革质，基部截形至心形；花成疏松狭圆锥花序，具花瓣。

112. **常绿悬钩子**　新种

Rubus sempervirens Yü et Lu, sp. nov.

Species *R. chroosepalo* Focke similis, sed foliis coriaceis, oblongo-ovatis vel late ovato-lanceolatis, acuminatis, fructibus rubris distincta.

Frutex sempervirens; ramuli et petioli glabri, aculeis falcatis instructi. Folia coriacea, oblongo-ovata vel late ovato-lanceolata, 11—22 cm longa, 5.5—11 cm lata, acuminata, basi cordata, subtus tomento cinereo-albido vel cinereo-flavo, obtecta, margine grosse et argute serrata; stipulae deciduae. Paniculae terminales, flavo-sericeo-villosae; bracteae apice dissectae, sericeo-villosae; calyces flavo-sericeo-villosi, saepe eglandulosi; sepala ovata vel ovato-lanceolata; petala nulla; carpella ca. 14—20, glabra. Fructus hemisphaerici diam. ca. 1 cm, rubri, glabri.

Jiangxi (江西): Ji'an (吉安), 12. VI. 1959, S. S. Lai (赖书绅), 876 (Typus, PE); Jinggang Shan (井冈山), S. S. Lai (赖书绅) 3927; ibidem, J. S. Yue et al. (岳俊三等) 4775; Yongxin (永新), X. X. Yang et al. (杨祥学等) 651036; Anfu (安福), J. S. Yue et al. (岳俊三等) 3066; Suichuan (遂川), sine coll. 118.

此种和毛萼莓 *R. chroosepalus* Focke 区别在于叶片革质，长卵形或宽卵状披针形，顶端渐尖；果实红色。

114b. **腺毛黄脉莓**　新变种

Rubus xanthoneurus Focke var. **glandulosus** Yü et Lu, var. nov.

A typo recedit petiolis brevioribus 1—2.5 cm longis, stipulis bracteisque majoribus 1—2.5 cm longis, pedicellis calycibusque stipitato-glandulosis.

Guangxi (广西): Damiao Shan (大苗山), alt. 840—920 m, 12. VI. 1958, S. H. Chun (陈少卿) 14447 (Typus, PE), 14053, 14280, 14418, 15046.

Guizhou (贵州): Leishan (雷山), C. P. Tsien et al. (简焯坡等) 50550, 50817。

和原变种区别在于叶柄较短，长 1—2.5 厘米；托叶和苞片较大，长 1—2.5 厘米；花梗和花萼具腺毛.

114c. **短柄黄脉莓**　新变种

Rubus xanthoneurus Focke var. **brevipetiolatus** Yü et Lu, var. nov.

Petioli breves ca. 1 cm longi; stipulae et bracteae petiolis longiores; pedicelli calycesque eglandulosi.

Guizhou (贵州): Leishan (雷山), alt. 1450 m, 22. VI. 1965, C. P. Tsien et al. (简焯坡等) 50572 (Typus, KUN); Kaili (凯里), Guizhou Austr. Exped. (黔南队) 1934。

本变种叶柄长约 1 厘米；托叶和苞片长于叶柄；花梗和花萼无腺毛。

115b. **脱毛圆锥悬钩子**　新变种

Rubus paniculatus Smith var. **glabrescens** Yü et Lu, var nov.

A typo differt foliis subtus glabrescentibus vetustate præter nervos pilosos glabris, margine argute serratis.

Yunnan (云南): Dulong Jiang (独龙江), alt. 1700 m, 26. VI. 1938, T. T. Yü (俞德浚) 19434 (Typus, PE).

和原变种区别在于叶片下面绒毛逐渐脱落，老时仅沿叶脉残存柔毛，边缘锯齿较尖锐。

119. **绿春悬钩子** 新种 图版 3: 2

Rubus lüchunensis Yü et Lu, sp. nov.

Proxima *R. feddei* Lévl. et Vant. et *R. salwinensi* Hand.-Mazz., a quibus foliis subcoriaceis, subtus dense flavo-tomentosis, ramulis petiolisque cum inflorescentiis et calycibus breviter stipitato-glandulosis, calycibus tomentosis recognoscitur.

Frutex scandens; rami petiolique flavo-villosi, glandulis breviter stipitatis et aculeis recurvis sparsisque obsiti. Folia subcoriacea, late ovata vel rotundato-ovata, 7—11 cm longa, acuta ad breviter acuminata, basi cordata, supra sparse villosa et breviter stipitato-glandulosa, margine argute serrata; stipulae deciduae. Paniculae amplae 15—20 cm longae, flavo-villosae, glandulis breviter stipitatis munitae; calyces lutescenti-tomentosi et stipitato-glandulosi; sepala lanceolata; petala elliptica; carpella 10—16, glabra. fructus diam. ca. 1 cm, purpurei, glabri.

Yunnan (云南): Lüchun (绿春), alt. 1700 m, 15. V. 1974, Lüchun Exped. (绿春队)。863 (Typus, KUN).

本种介于黔桂悬钩子 *R. feddei* Lévl. et Vant.和怒江悬钩子 *R. salwinensis* Hand.-Mazz.之间，但叶片近革质，下面密被浅黄色绒毛；枝、叶柄、花序及花萼被较短腺毛；花萼外具绒毛。

119b. **硬叶绿春悬钩子** 新变种

Rubus lüchunensis Yü et Lu var. **coriaceus** Yü et Lu, var. nov.

Folia coriacea dura, acuta vel obtusa. paniculae minores ca. 10 cm longae; sepala ovata, acuta.

Yunnan (云南): Jinping (金平), alt. 1900 m, 12. V. 1956, Yunnan Complex Exped. (云南综考队) 1372 (Typus, PE).

叶片硬革质，顶端急尖或圆钝；圆锥花序较小，长不到 10 厘米；萼片卵形，顶端急尖。

亚组 19. **锦葵叶亚组** Subsect. **Moluccani** (Focke) Yü et Lu, stat. nov. —— Sect. Moluccani Focke, Bibl. Bot. **72**(1): 71. 1910. p. p.

Folia simplicia, subrotundata, late ovata ad late oblonga, apice obtusa vel acuta, raro acuminata, subtus tomentosa vel pubescentia. Inflorescentiae paniculatae angustae vel subracemosae ad 15 cm longa vel flores pauci fasciculati, rarius solitarii; carpella 20—60 vel plura.

124. **勐腊悬钩子** 新种 图版 3: 3

Rubus menglaensis Yü et Lu, sp. nov.

Species *R. chrysobotryi* Hand.-Mazz. proxima, qui ramulis petiolisque et inflores-

centiis eglandulosis, foliis late ovatis, subtus juventute lutescenti-tomentosis vetule glabrescentibus, stipulis bracteisque lobatis, inflorescentiis amplis multifloris, ovariis glabris distinguitur.

Frutex ca. 1 m altus; ramuli petiolique helvolo-pubescentes aculeolis falcatis glandulisque stipitatis instructi. Folia oblongo-ovata vel late oblonga, 7—13 cm longa, 5—8 cm late, acuta, basi profunde cordata, margine dense tenuiter et argute serrulata; stipulae et bracteae ad 1 cm longae, pubescentes et setosae, pinnatipartitae. Inflorescentiae subracemosae vel anguste paniculatae, terminales vel axillares, cum calycibus pubescentes, setis mollibus glandulisque stipitatis munitae; sepala ovato-lanceolata, caudata, externa apice laciniata; petala subrotundata; ovaria pubescentia. Fructus rubri.

Yunnan (云南): Mengla (勐腊), alt. 550 m, 4. X. 1951, C. J. Pei (裴盛基) 10655 (Typus, KUN).

本种和黄穗悬钩子 *R. chrysobotrys* Hand.-Mazz. 相近，但后者小枝、叶柄和花序均无腺毛，叶片宽卵形，下面幼时具黄色绒毛，老时脱落，托叶和苞片分裂较浅，花序大而多花，子房无毛。

126. **贡山悬钩子**　新种

Rubus gongshanensis Yü et Lu, sp. nov.

Species a *R. echinoide* Metc. folliis 10—17 cm longis, pedicellis 1.5—2.5 cm longis, sepalis lanceolatis vel ovato-lanceolatis, externis apice 2—3-laciniatis, fructibus diam. 1.4—1.8 cm distincta.

Frutex 1—1.5 m altus, ramuli et petioli pubescentes, aculeolati et stipitato-glandulosi. Folia ovato-rotundata, 10—17 cm longa, 15—20 cm lata, acuta, basi profunde cordata, utrinque pubescentia, margine lobulata et inaequaliter grosse dentata; stipulae et bracteae deciduae. Inflorescentiae paniculatae vel subracemosae, terminales interdum flores ex axillis foliorum fasciculati; pedicelli calycesque pubescentes glandulis stipitatis aculeolisque acicularibus muniti; sepala lanceolata vel ovato-lanceolata, caudata, externa apice laciniata. Fructus subglobosi diam. 1.4—1.8 cm, glabri.

Yunnan (云南): Gongshan (贡山), 7. X. 1940, K. M. Feng (冯国楣) 8255 (Typus, PE).

此种和猬莓 *R. echinoides* Metc. 相近，但叶片长 10—17 厘米；花梗长 1.5—2.5 厘米；萼片披针形或卵状披针形，外萼片顶端 2—3 条裂；果实直径 1.4—1.8 厘米。

126b. **无刺贡山悬钩子**　新变种

Rubus gongshanensis Yü et Lu var. **qiujiangensis** Yü et Lu, var, nov.

A typo differt pedicellis calycibusque modo pubescentibus et stipitato-glandulosis, aculeis acicularibus nullis.

Yunnan (云南): Gongshan (贡山), Dulong Jiang (独龙江) alt. 3500 m, 22. X. 1938, T. T. Yu (俞德浚) 20838 (Typus, PE); ibidem, C. W. Wang (王启无) 67097。

本变种花梗和花萼外仅具柔毛和腺毛，无针刺。

127c. **长梗棕红悬钩子**　新变种

Rubus rufus Focke var. **longipedicellatus** Yü et Lu, var. nov.

A typo recedit foliis margine lobatis, pedicellis 1.5—2.5 cm longis, floribus ma-

joribus.

Yunnan (云南): Shuangbai (双柏), alt. 2800 m, 20. X. 1934, H. T. Tsai (蔡希陶) 58804 (Typus, PE).

叶边分裂较浅;花梗长 1.5—2.5 厘米;花较大。

129b. **裂萼大乌泡** 新变种

Rubus multibracteatus Lévl. et Vant. var. **lobatisepalus** Yü et Lu, var. nov.

Sepala foliiformia ad 2.4 cm longa, palmatifida, lobulis lanceolatis munita.

Yunnan (云南): Longling (龙陵), alt. 2500 m, 10. VIII. 1940, C. W. Wang (王启无) 90045 (Typus, KUN).

萼片似叶状,长达 2.4 厘米,上半部掌状深裂,裂片披针形。

134b. **密腺羽萼悬钩子** 新变种

Rubus pinnatisepalus Hemsl. var. **glandulosus** Yü et Lu, var. nov.

Rami et petioli cum pedicellis calycibusque dense glandulas stipitatas inaequales gerentes.

Sichuan (四川): Nanchuan (南川), alt. 2100 m, 16. VI. 1957, G. F. Li (李国凤) 62230 (Typus, PE); ibidem, K. C. Kuan et al. (关克俭等) 1376。

Yunnan (云南): Jingdong (景东), P. Y. Chiu (邱炳云), 53806。

枝、叶柄、花梗和花萼密被长短不等的腺毛。

137b. **汉密悬钩子** 新变种

Rubus hypopitys Focke var. **hanmiensis** Yü et Lu, var. nov.

A typo recedit planta stipitato-glandulosa, foliis lobis acutis instructis.

Xizang (西藏): Mêdong (墨脱) Hanmi (汉密), alt. 2200 m, 28. VI. 1980, Plateau Group Inst. Bot. Acad. Sin. (中科院植物所高原组) 10711 (Typus, PE).

与原变种区别在于植株具腺毛,叶的裂片急尖。

亚组 20. **绣叶亚组** Subsect. **Fuscifolii** Yü et Lu, subsect. nov. —— Sect. *Moluccani* Focke, Bibl. Bot. **72**(1): 71. 1910. p. p.

Folia simplicia, late ovata ad ovato-lanceolata, acuminata ad caudata, rarius acuta, subtus densius ferrugineo-tomentosa; Inflorescentiae breves, pauciflorae, raro paniculatae et multiflorae; carpella fere 10—50 vel plura. Typus subsectionis: *R. fuscifolius* Yü et Lu.

138. **河口悬钩子** 新种

Rubus penduliflorus Wu ex Yü et Lu, sp. nov.

Habitu *R. poliophyllo* Ktze. proxima, qui foliis subtus etomentosis, modo pilis sericeis flavisque obsitis, margine irregulaliter argute serrulatis, ovariis ca. 20—35 recedit.

Frutex erectus vel scandens 3 m altus; ramuli et petioli luteo-sericei, aculeolis recurvis sparsisque instructi. Folia oblongo-ovata, rarius elliptica 10—13 cm longa, 6—8 cm lata acuminata, basi rotundata, subtus fulvo-tomentosa, margine minute argute serrata; stipulae et bracteae late ovatae, luteo-sericeae, laciniatae. Inflorescentiae paniculatae, terminales, laxae vel interdum subracemosae axillares cum calycibus fulvo-sericeo-villosae et aculeolatae; sepala ovato-lanceolata, acuta, externa lobata; sepala

subrotundata vel late obovata, alba; ovaria glabra.

Yunnan (云南): Hekou (河口), 8. VI. 1956, Yunnan Complex Exped. (云南综考队) 2336 (Typus, PE), 2721.

本种和毛叶悬钩子 *R. poliophyllus* Ktze. 区别在于后者叶片下面无绒毛,仅具浅黄色绢状长柔毛,边缘具不整齐尖锐锯齿;子房约 20—25。

139. **麻栗坡悬钩子** 新种

Rubus malipoensis Yü et Lu, sp. nov.

Species *R. tinifolio* Wu ex Yü et Lu similis, qui foliis basi truncatis, subtus cano-vel flavo-tomentosis, margine inaequaliter grosse dentatis, sepalis ovatis, acutis, filamentis linearibus distinguitur.

Frutex ad 2 m altus; ramuli petiolique sparse pubescentes, aculeolis falcatis sparsisque armati. Folia ovata, 6—11 cm longa, 3—6 cm lata, caudata, basi cuneata ad rotundata, subtus dense luteo-tomentosa, margine argute et tenuiter serrulata; stipulae et bracteatae caducae, flavo-villosae, apice palmatifissae. Inflorescentiae breviter racemosae, pauciflorae, terminales axillaresque vel flores fasciculati et solitarii ex axillis foliorum orti; pedunculi pedicellique cum calycibus densius luteo-villosi; sepala lanceolata, acuminata, externa margine laciniata; petala subrotundata; ovaria glabra. Fructus minores, e drupeolis paucis compositi.

Yunnan (云南): Malipo (麻栗坡), alt. 1300 m, 16. I. 1940, C. W. Wang (王启无) 83915 (Typus, PE), 86362; Xichou (西畴), K. M. Feng (冯国楣) 11678。

此种和截叶悬钩子 *R. tinifolius* Wu ex Yü et Lu 近缘,但后者叶基截形,下面密被灰白色或浅黄色绒毛,边缘具不整齐粗锯齿;萼片卵形,急尖;花丝线形。

140. **锈叶悬钩子** 新种

Rubus fuscifolius Yü et Lu, sp. nov.

Proxima *R. shihae* Metc. qui foliis 8—11 cm longis, stipulis et bracteis oblongis vel ovato-lanceolatis, fere 1 cm longis, modo apice palmatilobatis, inflorescentiis laxis, paucifloris et dense flavo-tomentoso-villosis, calycibus flavo-sericeo-villosis tomentosisque recedit.

Fruticosus; ramuli et petioli dense ferrugineo-tomentosi aculeolatique. Folia late ovata, 12—20 cm longa, 10—16 cm lata, acuminata, basi cordata, supra in nervis et subtus ferrugineo-tomentosa, margine lobata et argute duplicato-serrata; stipulae et bracteae oblongo-lanceolatae ad 1.5 cm longae, ferrugineo-tomentosae, pinnatipartitae. Inflorescentiae subpaniculatae cum calycibus ferrugineo-tomentoae; sepala ovata vel ovato-lanceolata, acuta ad acuminata, externa lobata; petala late obovata vel subrotundata; ovaria glabra.

Yunnan (云南): Gaoligong Shan (高黎贡山), alt. 1800 m, 27. VIII. 1938, T. T. Yü (俞德浚) 19978 (Typus, PE); Pingbian (屏边), C. W. Wang (王启无) 82768; ibidem, Yunnan Complex Exped. (云南综考队) 3464; Hekou (河口), W. X. Liu (刘伟心) 539。

本种和桂滇悬钩子 *R. shihae* Metc. 区别在于后者叶片长 8—11 厘米;托叶和苞片长圆形或卵状披针形,长不到 1 厘米,仅顶端掌状浅裂;花序疏松少花,密被黄色绒毛状柔

毛;花萼被黄色绢状长柔毛和绒毛。

142d. **大叶锈毛莓** 新变种

Rubus reflexus Ker var. **macrophyllus** Yü et Lu, var. nov.

Folia magna 14—20 cm longa, 12—19 cm lata, margine 5-lobata, lobis acutis obsita.

Yunnan (云南): Pingbian (屏边), alt. 1300 m, 14. VII. 1934, H. T. Tsai (蔡希陶) 60866 (Typus, PE).

叶片大,长 14—20 厘米,宽 12—19 厘米,边缘 5 浅裂,裂片急尖。

亚组 21. **巨托亚组** Subsect. **Stipulosi** Yü et Lu, subsect. nov.——Sect. ***Moluccani*** Focke, Bibl. Bot. **72**(1) 71. 1910. p.p.

Folia simplicia, subrotundata, ovata ad elliptica, obtusa vel acuta ad caudata, subtus tomentosa vel sericeo-villosa glabraque; stipulae bracteaeque magnae ad 4—5 cm longae, lobulatae vel dentatae. Flores ad apicem ramorum in inflorescentias paniculatas vel subracemosas dispositi vel paucis et solitariis axillaribusque concomitati; carpella 25—70 vel plura. Typus subsectionis: *R. stipulosus* Yü et Lu.

146. **巨托悬钩子** 新种

Rubus stipulosus Yü et Lu, sp. nov.

Proxima *R. irenaeo* Focke, qui stipulis oblongis, 2—3 cm longis, foliis subtus dense cano- vel lutescenti-tomentosis, margine undulatis vel obscure lobatis, inflorescentiis calycibusque dense tomentoso-villosis, sepalis late ovatis, breviter acuminatis recedit.

Frutex scandens, pubescens et sparsim breviter aculeolatus. Folia subrotundata vel late ovata, acuta, basi cordata, subtus dense fulvo-tomentosa, margine 5—7-lobata et inaequaliter dentata; stipulae et bracteae late ovatae vel late oblongo-ovatae ad 2 cm longae, lobatae vel dentatae. Inflorescentiae subracemosae terminales et pauciflorae vel flores fasciculati ex axillis foliorum orti; pedunculi pedicellique dense villosi; calyces ad 2 cm longi, densius villosi; sepala ovato-lanceolata, acuminata, externa apice laciniata; petala late ovata vel subrotundata; ovaria glabra.

Guangxi (广西): Dayao Shan (大瑶山), 1200m, 3. VI. 1958, Y. K. Li (李荫昆) 400155 (Typus, PE); sine loc. S. S. Sin (辛树帜) 9045, 22206, 23070, 23159。

此种和灰毛泡 *R. irenaeus* Focke 相近,惟后者托叶长圆形,长 2—3 厘米;叶片下面密被灰色或黄灰色绒毛,边缘波状或不明显浅裂;花序和花萼密被绒毛状柔毛;萼片宽卵形,顶端短渐尖。

149. **厚叶悬钩子** 新种 图版 3: 4

Rubus crassifolius Yü et Lu, sp. nov.

A speciebus ceteris differt floribus solitariis, rarius 2—3 fasciculatis, foliis subtus inflorescentiisque cum calycibus fulvo-sericeo-villosis, stipulis subrotundatis vel late ovatis 1.5—2 cm longis.

Frutex humilis ad 0.5 m altus; rami et petioli inermes, fulvo-sericeo-villosi. Folia subcoriacea subrotundataque diam. 3—7 cm, basi cordata, utrinsecus sericeo-villosa, margine undulata vel 3—5-lobata, crenato-dentata; stipulae et bracteae subrotundatae vel late ovatae, sparsim sericeo-villosae, laciniatae. Flores solitarii, raro 2—3 terminales vel axillares; calyces ad 1.5 cm longi; sepala ovata, externa palmatim partita vel

inciso-serrata; petala late ovata; ovaria glabra. Fructus subglobosi, rubri et glabri, e drupeolis numerosis compositi.

Jiangxi (江西): Wugong Shan (武功山), Jiangxi Exped. (江西队) 162。

Hunan (湖南): Yizhang (宜章), J. G. Xiao (肖家庚) 4172; ibidem, M. X. Huang (黄茂先) 11859; ibidem, L. H. Liu (刘林翰) 1378。

Guangdong (广东): Ruyuan (乳源), Guangdong Exped. (广东队) 563。

Guangxi (广西): Xing'an (兴安), VI. 1953, Guangxi Exped. (广西队) 4235 (Typus, PE), 891; ibidem, Z. Z. Chen (陈照宙) 51270; Ziyuan (资源), Z. Z. Chen (陈照宙) 52073。

本种花单生,稀 2—3 朵;叶片下面、花序和花萼均被黄棕色绢状长柔毛;托叶近圆形或宽卵形,长 1.5—2 厘米,与其他种易于区分。

亚组 22. **总序亚组** Subsect. **Sozostyli** (Focke) Yü et Lu, stat. nov. —— Sect. *Sozostyli* Focke, Bibl. Bot. 72(1): 42. 1910.

Folia palmato-ternata vel quinata vel simplicia, subtus cinereo-vel fulvido- ad ferrugineo-tomentosa; Racemi simplices terminales vel axillares; carpella 25—60 vel plura.

154. **黄平悬钩子** 新种 图版 4: 1

Rubus huangpingensis Yü et Lu, sp. nov.

Species *R. henryi* Hemsl. similis, qui foliis 3—5 dissectis, margine sparsim minute et argute serratis, lobis lanceolatis vel anguste oblongis instructis, inflorescentiis calycibusque eglandulosis vel rarius modo calycibus glandulis stipitatis sparsis munitis, functibus nigris differt.

Frutex scandens; rami et petioli juventute tomentosi vetule glabrescentes. Folia subcoriacea, 7—11 cm longa, basi truncata ad cordata, subtus ferrugineo-tomentosa, margine inaequaliter grosse et argute serratæ, profunde triloba, lobis ellipticis vel oblongis obsita; stipulae et bracteae oblongae vel oblongo-lanceolatae apice lobatae vel 2—3-dentatae. Racemi terminales: pedunculi pedicellique puberuli glandulis stipitatis aculeolisque acicularibus armati; calyces puberuli et sparsim stipitato-glandulosi; sepala longe triangularia vel triangulari-lanceolata, breviter caudata; ovaria villosa. Fructus subglobosi diam. 1—1.4 cm, rubri.

Guizhou (贵州): Huangping (黄平), 7. VII. 1959, Guizhou Austr. Exped. (黔南队) 2662 (Typus, PE).

此种和鸡爪茶 *R. henryi* Hemsl. 近缘,惟后者叶片 3—5 深裂,裂片披针形或狭长圆形,边缘有稀疏细锐锯齿;花序和花萼无腺毛或仅于花萼疏生腺毛;果实黑色。

155b. **光叶闽粤悬钩子** 新变种

Rubus dunnii Metc. var. **glabrescens** Yü et Lu, var. nov.

A typo differt foliis subtus glabrescentibus.

Fujian (福建): Zhangzhou (漳州), IX. 1977, Agri. School (农校), sin. coll. (Typus, PE).

叶片下面绒毛逐渐脱落,至老时无毛。

160. **黎川悬钩子** 新种

Rubus lichuanensis Yü et Lu., sp. nov.

Proxima *R. gressittii* Metc., qui foliis lanceolatis ad elliptico-lanceolatis, basi rotundatis ad truncatis, margine crenato-dentatis, calycibus extus tomentosis, fructibus rubiginosis distinguitur.

Frutex ad 2 m altus; rami juveniles petiolique fuscotomentosi, falcato-aculeati. Folia ovata vel ovato-lanceolata, 5—8 cm longa, 3—4 cm lata, acuminata, basi cordata supra sparse pilosa, subtus fusco-tomentosa, margine lobata vel undulata et grosse crenato- vel duplicato-serrata; stipulae et bracteae caducae. Inflorescentiae racemosae, fusco tomentoso-villosae, glandulis stipitatis brevibus et aculeolis acicularibus sparsisque instructae; calyces dense fusco-tomentoso-villosi; sepala oblongo-ovata vel triangulari-ovata, acuta. Fructus subglobosi diam. 1—1.6 cm, nigri, glabri.

Jiangxi (江西): Lichuan (黎川), 2. VI. 1958, M. X. Nie et al. (聂敏祥等) 2781 (Typus, PE).

此种和江西悬钩子 *R. gressittii* Metc. 区别在于后者叶片披针形至椭圆状披针形，基部圆形至截形，边缘有圆钝锯齿；花萼外被绒毛；果实暗红色。

163. **长圆悬钩子** 新种

Rubus oblongus Yü et Lu. sp. nov.

Species a *R. caudifolio* Wuzhi foliis anguste oblongis vel oblongo-lanceolatis, subtus flavescenti-tomentosis, utrinque 8—11-costulatis, petiolis 0.8—1.5 cm longis, stylis glabris, fructibus rubris distincta.

Frutex scandens, flavescenti-tomentosus vetustate glabrescens, aculeolis recurvis munitus. Folia coriacea, anguste oblonga vel oblongo-lanceolata, 10—15 cm longa, 1.5—3(4) cm lata, caudata, basi late cuneata ad rotundata, subtus flavescenti-tomentosa, utrinque 8—11-costulata, margine mucronato-dentata; petioli 0.8—1.5 cm longi; stipulae et bracteae oblongo-lanceolatae, rarius lobatae, caducae. Racemi breves terminales vel axillares cum calycibus flavescenti-tomentoso-pubescentes; sepala ovato-lanceolata vel triangulari-lanceolata; petala subrotundata; filamenta pubescentia; ovaria glabra. Fructus subglobosi, rubri, glabri.

Guizhou (贵州): Nayong (纳雍), alt. 2050 m, 27. VII. 1959, Bijie Exped. (毕节队) 506 (Typus, PE).

Yunnan (云南): Yongshan (永善), B. X. Sun (孙必兴) 438; Daguan (大关), Northeast Yunnan Exped. (滇东北队) 412。

此种和尾叶悬钩子 *R. caudifolius* Wuzhi 相近，但叶片狭长圆形或长圆披针形，下面被浅黄色绒毛，叶脉 8—11 对；叶柄长 0.8—1.5 厘米；花柱无毛；果实红色。

164. **福建悬钩子** 新种 图版 4: 2

Rubus fujianensis Yü et Lu. sp. nov.

R. caudifolio Wuzhi similis, qui foliis utrinsecus 5—8-costulatis, petiolis 1.5—2.5 cm longis, pedicellis calycibusque inermibus, stylis villosis, fructibus nigris differt. Species a *R. oblongo* Yü et Lu foliis subtus fulvo-tomentosis, pedicellis calycibusque aculeolis acicularibus instructis, pedicellis 1.5—2.5 cm longis diversa.

Frutex scandens 2—4 cm altus, glaber. Folia coriacea, oblonga ad oblongo-lanceola-

ta, 13—17 cm longa, 2.5—4.5 cm lata, acuminata, basi rotundata ad truncata, subtus fulvo-tomentosa, margine praeter partem basalem sparsim minute serrata, 8—10-costulata; stipulae et bracteae 1—1.3 cm longae, integrae. Racemi terminales vel axillares cum calycibus fulvo-tomentoso-pubescentes aculeis acicularibus obsiti. Flores diam. ad 2 cm; sepala late lanceolata, breviter acuminata. Fructus subglobosi 1—1.2 cm longi, rubri, glabri.

Fujian (福建): Chong'an (崇安), alt. 1400 m, 20. VII. 1963, L. G. Ling (林来官) 5524 (Typus, PE).

和尾叶悬钩子 *R. caudifolius* Wuzhi 区别在于后者叶片具 5—8 对叶脉，叶柄长 1.5—2.5 厘米；花梗和花萼无刺；花柱具长柔毛；果实黑色。又和长圆悬钩子 *R. oblongus* Yü et Lu 相比，本种叶片下面具黄褐色绒毛；花梗和花萼具针刺，花梗长 1.5—2.5 厘米。

166b. **长萼棠叶悬钩子** 新变种

Rubus malifolius Focke var. **longisepalus** Yü et Lu, var. nov.

Flores magni; sepala lanceolata vel ovato-lanceolata ad 2.5 cm longa.

Guangxi (广西): Longsheng (龙胜), 2. VII. 1958, Z. Z. Chen (陈照宙) 51142 (Typus, PE); Jiuwanda Shan (九万大山), S. H. Chun (陈少卿) 14029, 15757; ibidem, D. Z. Chen (陈德昭) 748; Xingan (兴安), Guangxi Exped. (广西队) 535, 542。

花大，萼片披针形或卵状披针形，长达 2.5 厘米。

亚组 23. **单花亚组** Subsect. **Metoenses** Yü et Lu, subsect. nov.—— Subgen. *Dolibardastrum* Focke, Bibl. Bot. **72**(1): 39. 1910. p. p.

Folia ternata, subrotundata, ovata, rhombeo-ovata vel elliptica, utrinque sparsim pilosa. Flores solitarii; carpella numerosa, rarius pauca. Typus subsectionis: *R. metoensis* Yü et Lu

亚组 24. **蒲桃叶亚组** Subsect. **Jambosoides** Yü et Lu, subsect. nov.—— Sect. Leucanthi Focke, Bibl. Bot. **72**(2): 146. 1911. p. p.

Folia simplicia lanceolata, utrinque glabra. Flores solitarii; carpella fere 50—70 vel plura. Typus subsectionis: *R. jambosoides* Hance

组 5. **刺毛莓组** Sect. **Dalibardastrum** (Focke) Yü et Lu, stat. nov. et emend. Yü et Lu —— Subgen *Dalibardastrum* Focke, Bibl. Bot. **72**(1): 39. 1910. p.p. —— Subgen. Malachobatus Focke, 1. c. **72**(1): 41. 1910. p.p.

171. **金佛山悬钩子** 新种 图版 4: 3

Rubus jinfoshanensis Yü et Lu. sp. nov.

Habitu *R. tricolori* Focke proxima, qui foliis utrinque setis munitis, stipulis persistentibus, floribus diam. 2—3 cm, solitariis ex axillis foliorum ortis vel in racemos terminales breves et paucifloros dispositis, petalis albis recedit.

Frutex scandens 2—5 m altus, purpureo-setosus et tomentosus, interdum stipitato-glandulosus. Folia oblongo-ovata, 8—12 cm longa, 5—9 cm lata, breviter acuminata, basi cordata, subtus flavo- cano-tomentosa, margine inaequaliter grosse et anguste serrata; stipulae caducae, lobulatae. Paniculae multiflorae; pedicelli 5—8 mm longi; sepala lanceolata vel ovato-lanceolata, integra; petala nulla; ovaria glabra.

Sichuan (四川): Nanchuan (南川), Jinfo Shan (金佛山), alt. 2100 m, 17. VII.

1957, G. F. Li (李国凤) 62859 (Typus, PE), 62603, 63444; ibidem, T. H. Hsiung (熊济华) 92360, 92675; ibidem, K. C. Kuan et al. 1211 (关克俭等); ibidem, F. T. Wang (汪发缵) 10147, 10614。

此种和三色莓 *R. tricolor* Focke 区别在于后者叶片两面具刺毛;托叶常宿存;花单生于叶腋或数朵成顶生短总状花序;花直径 2—3 厘米,具白色花瓣。

172. **五裂悬钩子** 新种 图版 4: 4

Rubus lobatus Yü et Lu. sp. nov.

Species affinis *R. amphidasyi* Focke ex Diels, qui fruticibus humilibus scandentibusque, foliis late oblongo-ovatis, margine lobatis, lobis terminalibus lateralibus valde longioribus munitis, floribus 5—12 in inflorescentiam subracemosam dispositis vel 3—5 fasciculatis differt.

Frutex scandens 1—2 m altus, pubescens glandulis stipitatis, setis rubiginosis inaequalibusque et aculeolis sparsis armatus. Foliæ cordato-subrotundata diam. 10—20 cm, utrinsecus pubescentia in nervis setosa et stipitato-glandulosa, margine 3—5-lobata, irregulariter argute serrata, lobis terminalibus lateralibus paullo longioribus munita; stipulae et bracteæ palmatipartitae, deciduae. Inflorescentiae terminales paniculatae, axillares anguste paniculatae vel subracemosæ; sepala anguste lanceolata, caudata, margine tomentosa, externa laciniata; petala alba; ovaria glabra. Fructus subglobosi diam. ca. 1 cm, rubri, glabri.

Guangxi (广西): Rong (容县), 23. VI. 1956, S. H. Chun (陈少卿) 9494 (Typus, PE); Cangwu (苍梧), S. H. Chun (陈少卿) 10004; Longsheng (龙胜), C. T. Lee et al. (李中提等) 71085; sine loc. Y. K. Li (李荫昆) 400953, 401632。

Guangdong (广东): Liannan (连南), P. S. Taam (谭沛祥) 58507; Yang Shan (阳山), T. Liang (邓良) 133。

此种和周毛悬钩子 *R. amphidasys* Focke et Diels 区别在于后者为蔓性小灌木; 叶片宽长卵形,边缘浅裂,顶生裂片比侧生者长很多;花 5—12 朵成近总状花序或 3—5 朵簇生于叶腋。